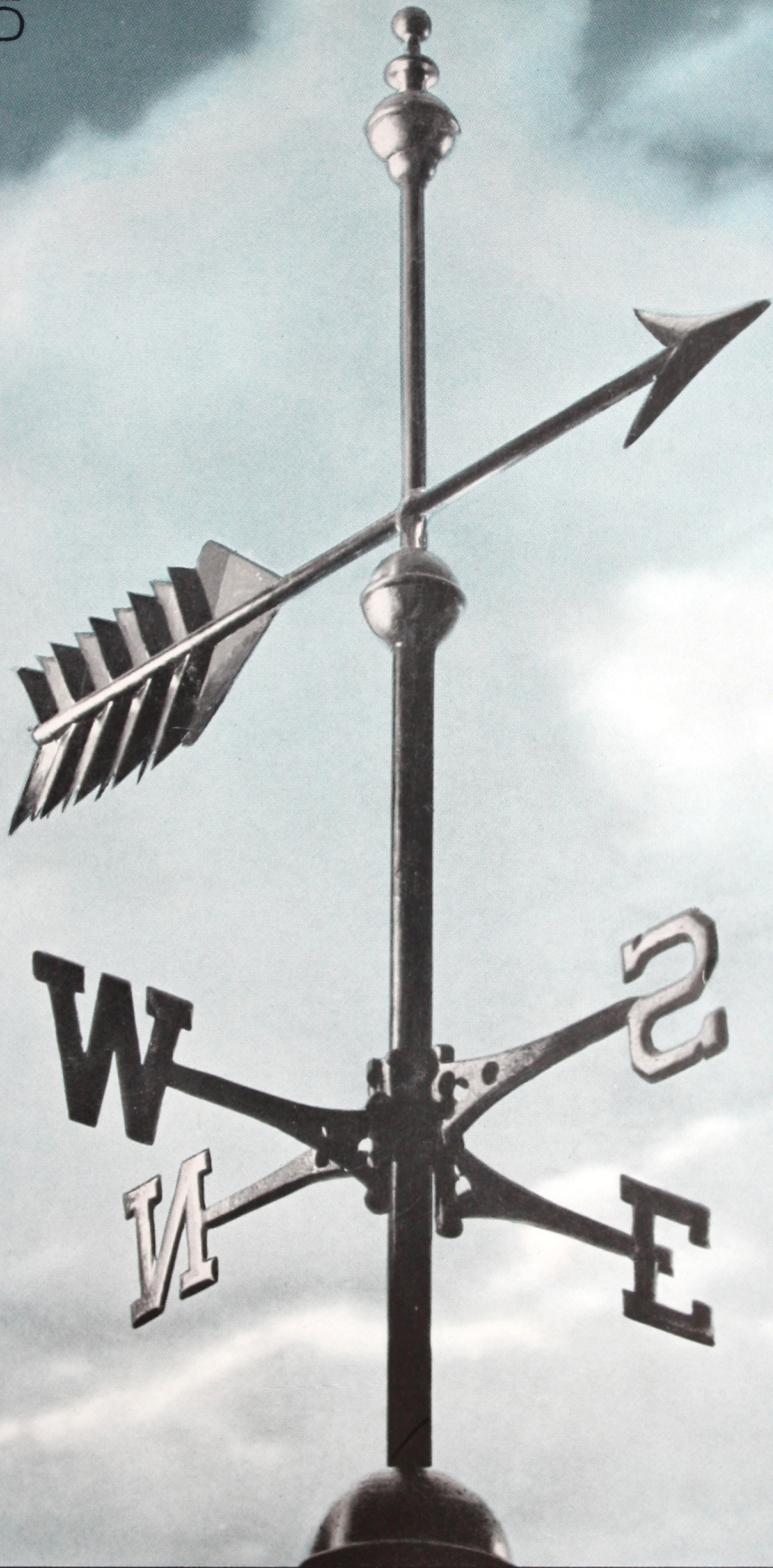


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**INDUSTRY FREED OF WEATHER HAZARDS**  
**BY STURTEVANT AIR CONDITIONING**

Bulletin AC 101

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# INDUSTRY FREED of WEATHER HAZARDS

*by Sturtevant AIR CONDITIONING*

**M**AN, in making things, has grappled with the handicaps of climate and with the vicissitudes of the weather from time immemorial. In fact, evidence of his first crude attempt to conquer an air conditioning problem dates back to the very dawn of history.

In the early days, many of our industries were forced to locate far from the sources of raw material supply, because of unsatisfactory climatic conditions. Thus, for years, Alabama cotton was shipped to New England, and even to England, for fabrication.

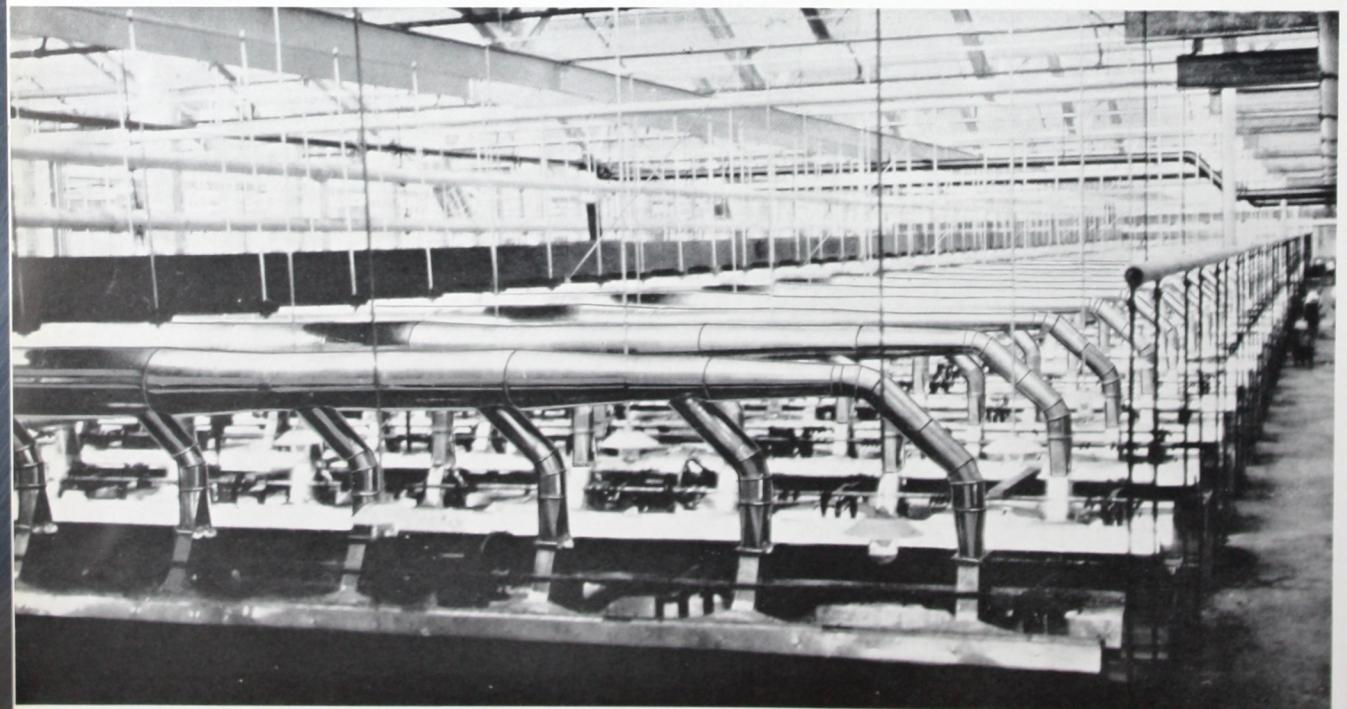
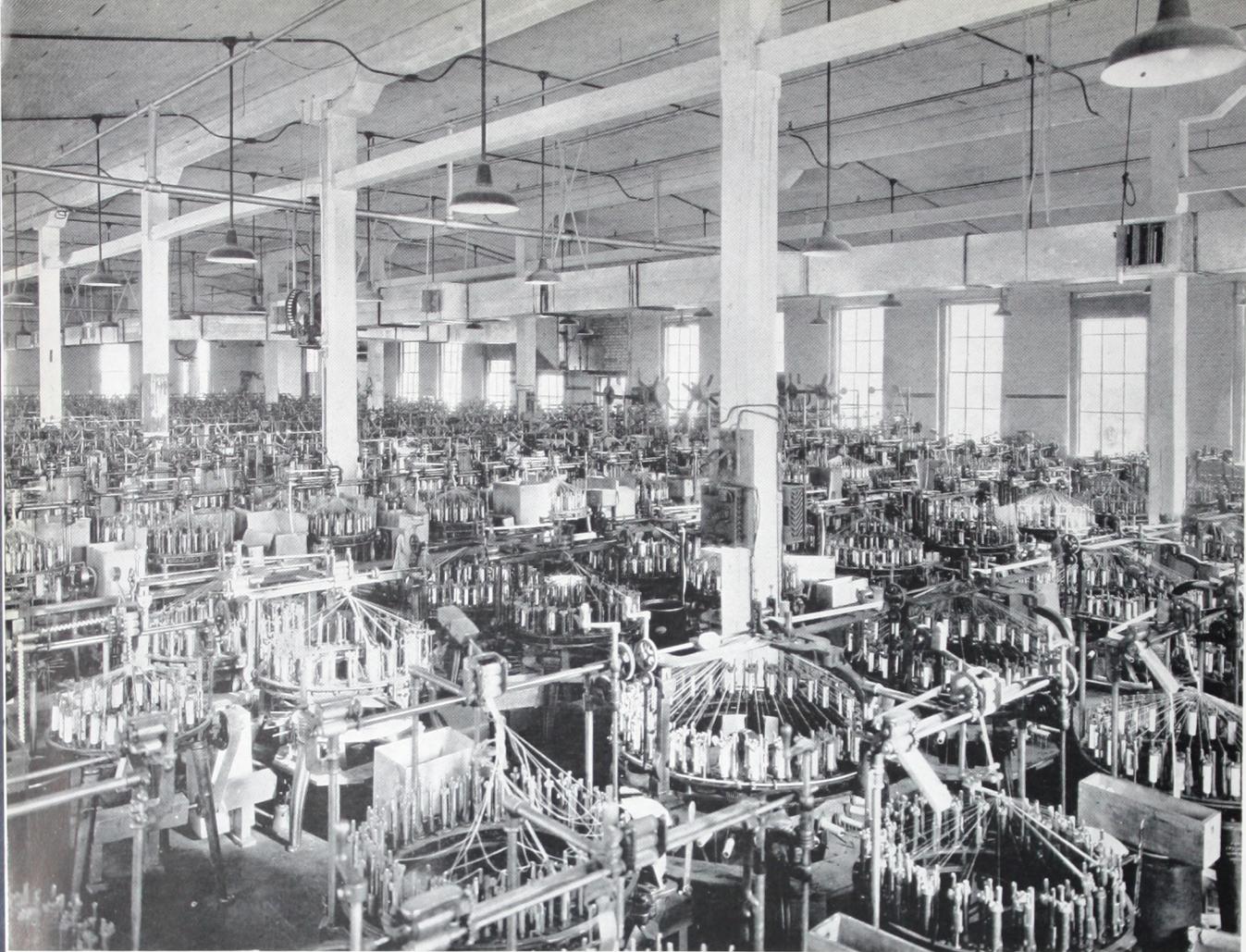
As mass production methods developed in industry, the need for a reliable and positive means of controlling indoor air conditions became more and more pressing. This need was met by Sturtevant in 1910, in which year this company made their first installation of air conditioning equipment, with refrigeration, for controlled condensing of moisture.

Today, no manufacturer need suffer from unfavorable outdoor weather. Products which are weather-sensitive, such as leather, paper, cigars and cigarettes, wood articles, chewing gum, candies, cereals, bread, powdered materials and textiles, can be processed, stored and packaged under ideal indoor weather conditions. Former weather difficulties can be banished, quality and appearance of products improved, and substantial dollar savings made.

With Sturtevant Air Conditioning, complete independence from outdoor weather can be gained. Any indoor conditions of temperature, humidity, and air cleanliness, which will facilitate the processing, packaging or storing of your product, can be automatically maintained.

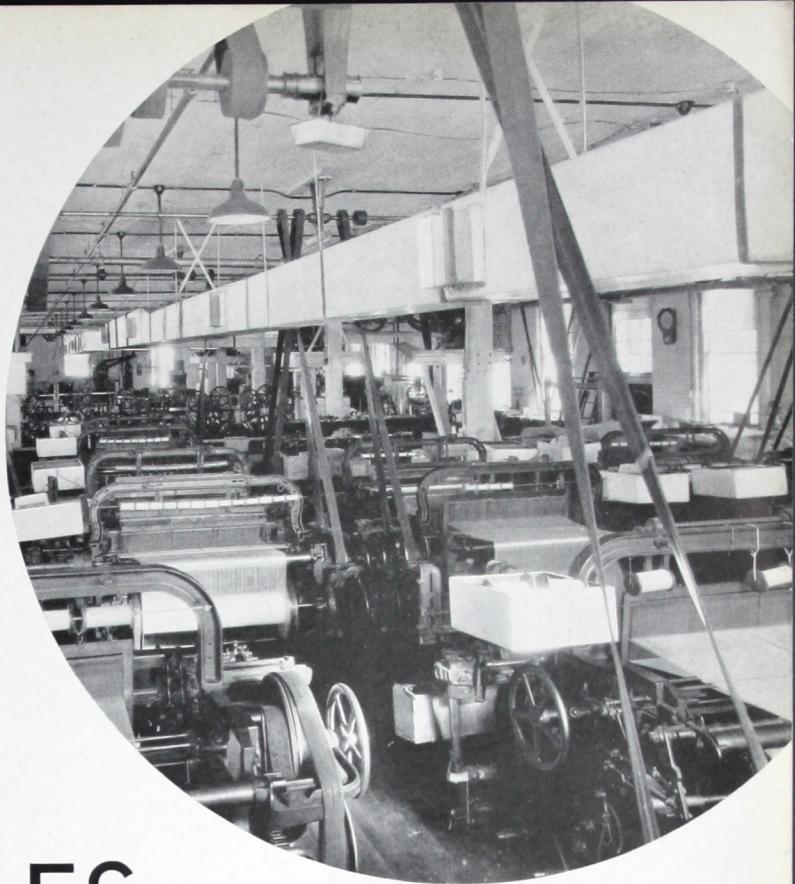
A pioneer in the field of industrial air conditioning, Sturtevant is exceptionally well-equipped to provide competent advice, engineering service, and equipment. Made in a most comprehensive range of types, Sturtevant systems are available for any and every air conditioning need.

In this catalog are shown but a few typical installations of hundreds made by Sturtevant in a wide variety of industries.



STURTEVANT AIR CONDITIONING FOR INDUSTRY

[4]



# TEXTILES...

There is no field in which air conditioning has made a greater contribution to efficient, uniform production than in the textile industry. Today, in this industry, it is proving to be practically indispensable. For it is lowering costs, by making possible the use of higher speeds and the reduction of costly waste and inefficiency.

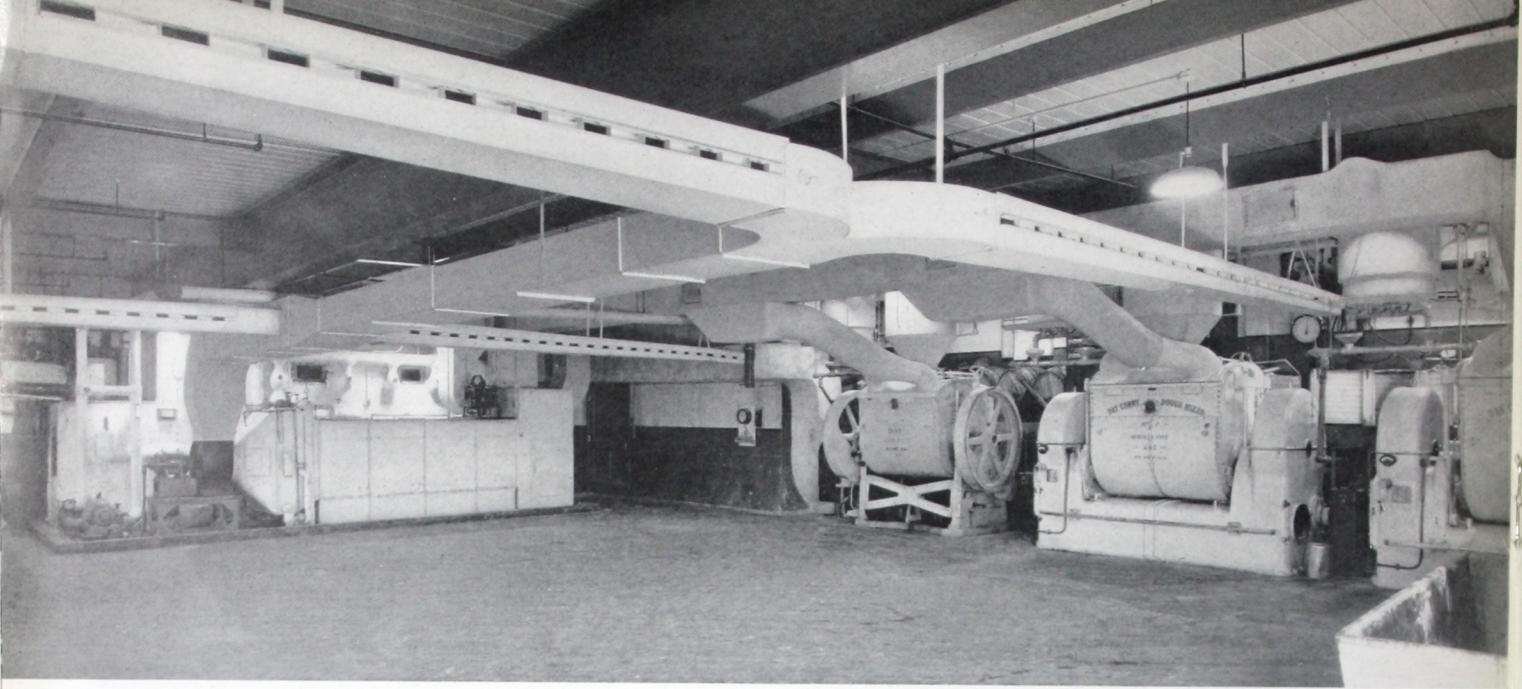
Through the use of Sturtevant Air Conditioning, textile mills are able to automatically maintain temperature and humidity within very close limits and to positively eliminate those excessive and often sudden fluctuations due to changing outside weather conditions.

Controlled indoor air as provided by Sturtevant prevents static electricity, brittle or flabby fibres, and "furring" of fibres. It insures uniformity of weight, finish and quality. The air is kept clean; free of lint and dust. When required, as in the rayon industry, dangerous chemical vapors are carried away.

Following are merely a few of the many textile mills which are profiting through the use of Sturtevant Air Conditioning:



Onyx Hosiery, Inc.	Wharton, New Jersey
DuPont Rayon Co.	Buffalo, N. Y.
DuPont Rayon Co.	Old Hickory, Tenn.
DuPont Rayon Co.	Richmond, Va.
American Enka Corp.	Enka, North Carolina
Stewart Silk Co.	Easton, Pa.
Warren Featherbone Co.	Three Oaks, Mich.
Hanover Woolen Mills	Hanover, Ill.
United Piece Dye Works	Lodi, N. J.
Carolina Rayon Mills, Inc.	Burlington, N. C.
American Glanzstoff Corp.	Elizabethton, Tenn.
American Bemberg Co.	Johnson City, Tenn.
Industrial Rayon Co.	Covington, Va.
Tubize Chatillon Co.	Rome, Ga.



## BAKERIES ...

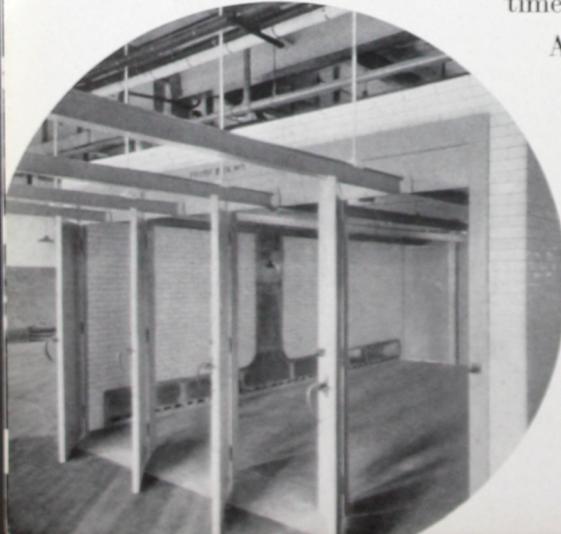
Historians assert that of the many applications of air conditioning, the bakery is the oldest on record. Be that as it may, the baking industry is one of the largest users of air conditioning.

To assure, day after day, efficient large-scale production of bread of uniform goodness and appearance, some positive means of controlling indoor conditions of temperature and humidity are well-nigh essential. The air conditioning of large modern bread-bakeries, therefore, is now practically standard practice.

Sturtevant Air Conditioning is widely used in dough rooms, to control the time of fermentation, to obtain uniform fermentation, and to prevent crusting of dough masses in the troughs. It is also widely used in final proofing, to maintain desired humidity conditions. Other departments in which it may be employed to advantage include flour storage, and mixing and cooling rooms. It has been the means of putting production schedules on a controlled time basis and has saved thousands of dollars.

A large number of bakeries are now equipped with Sturtevant Air Conditioning, a few of which are listed below:

Ward Baking Co.	(14 plants)
Continental Baking Co.	(18 plants)
Emanuelson's Bakery	New Haven, Conn.
Columbia Baking Co.	(6 plants)
Schulze Baking Co.	Chicago, Ill.
Dayton Bread Co.	Dayton, Ohio
Geilfuss Baking Co.	Spartanburg, S. C.
First National Stores	Somerville, Mass.
West Baking Co.	Indianapolis, Ind.





# CANDY . . .



Candy making no longer need be carried on during only the cool seasons of the year. Furthermore, confectioners need not contend with upset production schedules and costly spoilage due to adverse weather. The reason for all this is:—Modern Air Conditioning.

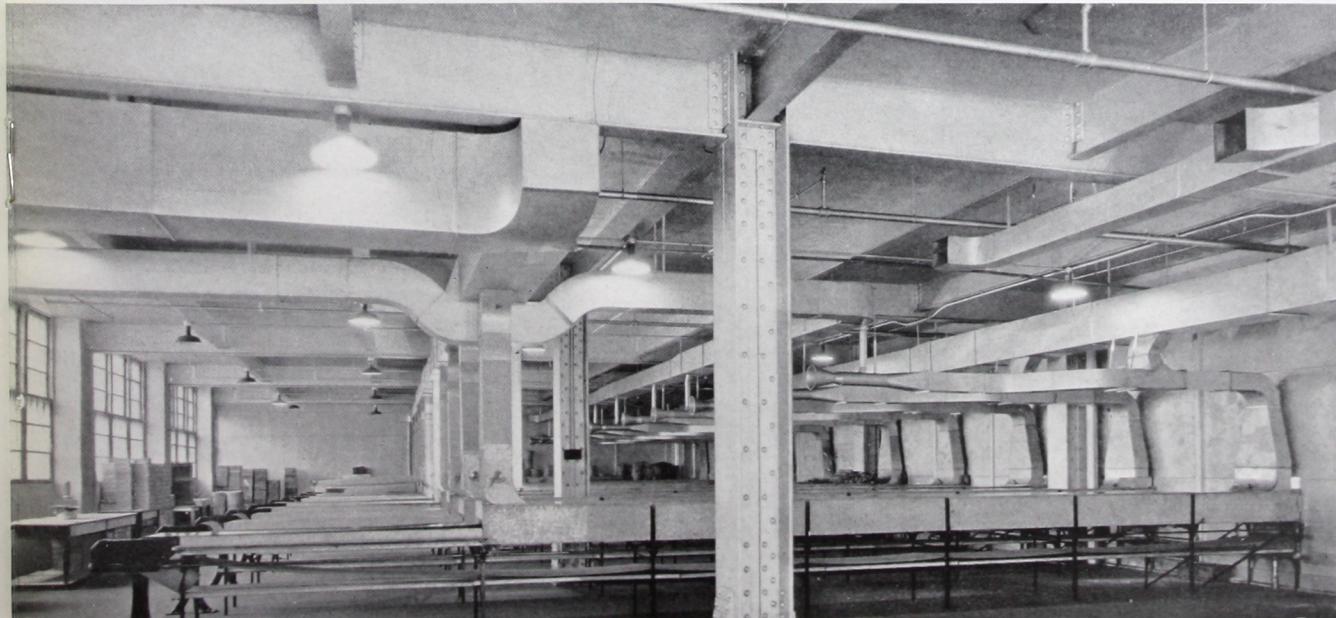
Through providing their plants with Sturtevant Air Conditioning, alert confectioners have made large dollar savings, improved the quality, uniformity and appearance of their products, and banished former production "headaches."

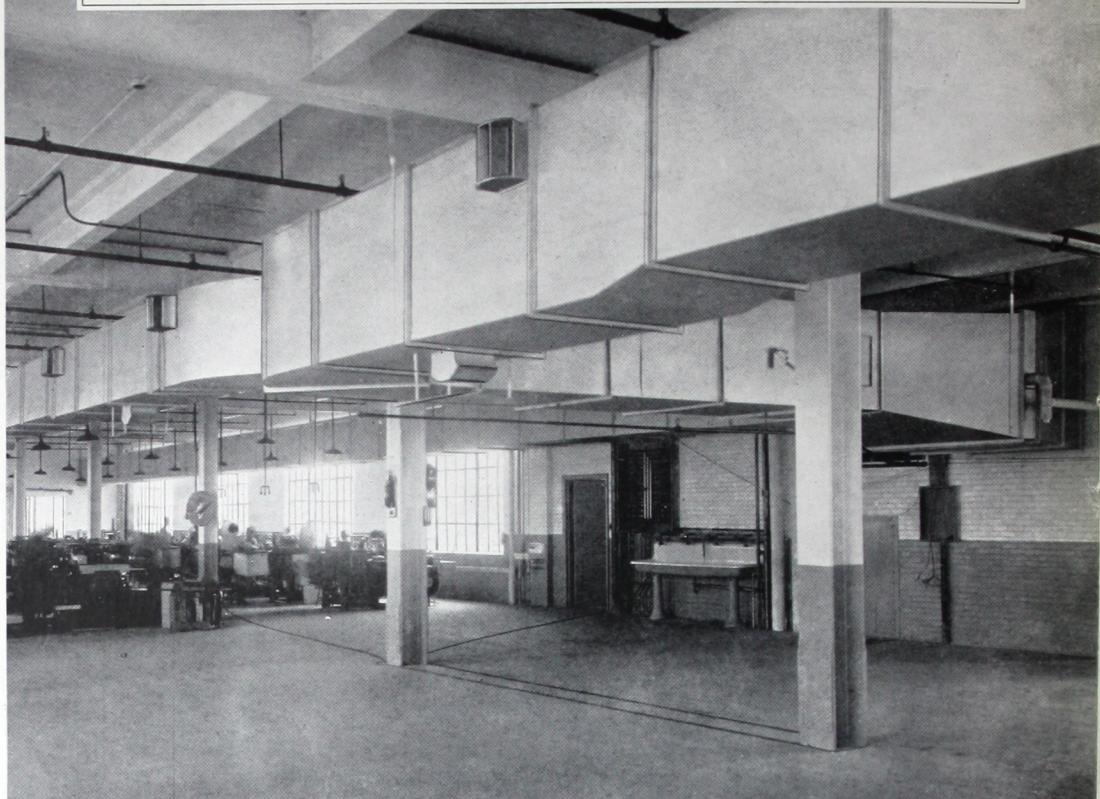
The prevention of chocolate "graying" and of "blush" on hard candy; the proper drying of cream centers; quick hardening; the maintenance of candy in proper condition, preceding and during packing; prevention of "gummed up" packaging machinery:—these are but a few of the accomplishments made possible or facilitated by Sturtevant Air Conditioning.

Of the many candy making plants in which Sturtevant Air Conditioning is provided, the following are a few:

Smith Bros. Co., Inc. . . . Michigan City, Indiana  
Charms Co. . . . Newark, New Jersey  
Louis Sherry, Inc. . . . Long Island City, N. Y.  
National Licorice Co. . . . Philadelphia, Pa.

Bennett Hubbard Candy Co. . . Chattanooga, Tenn.  
Beech-Nut Packing Co. . . . (2 plants)  
Smith Bros. Inc. . . . Poughkeepsie, N. Y.  
Hardie Bros. Candy Co. . . . Pittsburgh, Pa.





## TOBACCO . . .

Modern air conditioning has been a boon to high speed machine production of cigars and cigarettes. It has saved thousands upon thousands of dollars by eliminating former production inefficiencies and difficulties, by preventing spoilage, by maintaining uniformity of quality, and by making possible uninterrupted operations under all weather conditions.

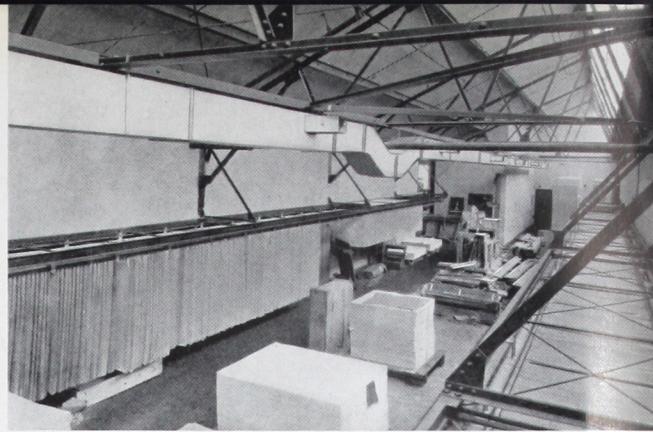
Sturtevant Air Conditioning provides ideal conditions of temperature and humidity throughout every process, from storing and curing the tobacco leaf to packing the finished product. It permits precise control of fermentation, moisture weight loss, and wrapper leaf coloring; prevents brittleness; and banishes those frequent machine

adjustments and wrapping troubles that ordinarily are caused by varying atmospheric conditions.

Following is a list of some typical Sturtevant installations in this field:

General Cigar Co. . . . .	9 plants
Consolidated Cigar Co. . . . .	Lancaster, Pa.
Continental Tobacco Co. . . . .	Richmond, Va.





# PRINTING . . .

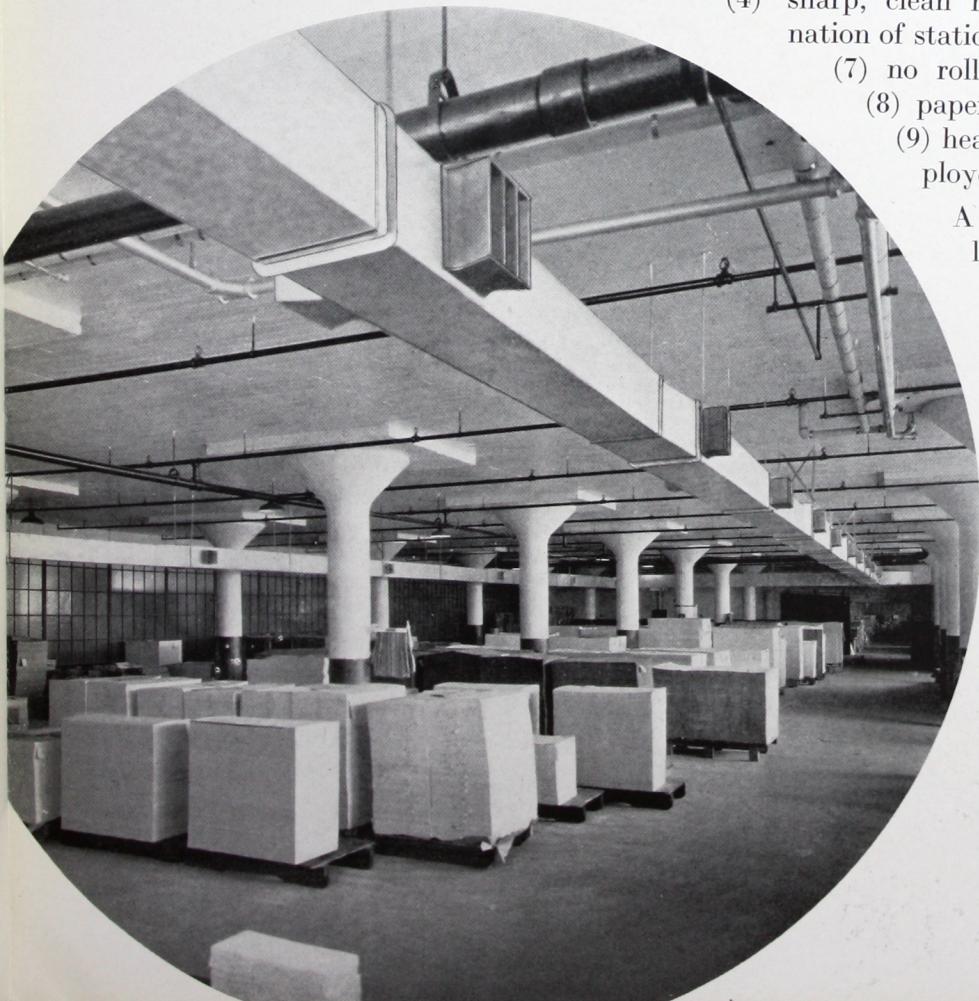
Until the advent of modern air conditioning, printers and lithographers were almost completely at the mercy of the weather. This was due largely to the fact that paper is a highly hygroscopic material, whose printing and lithographing qualities depend greatly on its moisture content. Now, however, with temperature and humidity automatically controlled and exactly maintained within desired limits by Sturtevant Air Conditioning Equipment, paper stock is easily kept in perfect condition at all times.

Included among the many advantages of modern air conditioning as reported by printers and lithographers are: (1) no cracking or curling of paper, or wavy edges;

- (2) improved register; (3) better ink distribution;
- (4) sharp, clean reproduction; (5) elimination of static; (6) fewer adjustments;
- (7) no roll swelling or shrinking;
- (8) paper stands folding better;
- (9) health and efficiency of employees improved.

A few of the printing and lithographing plants equipped with Sturtevant Air Conditioning are listed below.

U. S. Govt. Printing Office  
Chicago Rotoprint Co.  
Cuneo Press, Inc.  
Neo Gravure Co.  
Rotoprint Gravure Co.  
Latham Printing & Litho Co.  
Western Printing & Litho Co.  
American Paper Goods Co.  
Ditto, Inc.  
Herald Traveler Bldg.  
New York Times  
Philadelphia Inquirer





# BREWERIES . . .

Because of its many advantages over ordinary pipe coil refrigeration, modern air conditioning is rapidly increasing in use throughout the brewing industry. It permits very exact control of temperature and humidity in all departments, makes possible a cleaner plant, and greatly simplifies sanitation.

Brewmasters have found modern air conditioning to be of extraordinary value in the fermenting room, where it contributes materially to the production of a brew of uniformly high quality. The elimination of "drippings" from the ceiling and the carrying off of CO<sub>2</sub> gases are of course big advantages where open-top vats are used.

Other advantages of modern air conditioning in breweries are: (1) Absolutely clean air; (2) No condensation on pipes, walls or ceilings; (3) No defrosting; (4) No pipes to collect rust and dirt; (5) No pipes to be cleaned or painted; (6) More room, because of pipe elimination.

Sturtevant Air Conditioning is designed for hop and yeast storage, aerating rooms, fermentation rooms, stock cellars, racking-off rooms, and other departments of a brewery. Shown is the Sturtevant air-conditioned fermentation room of the Dawes Brewery, Montreal, Canada.





## FLOUR MILLS...

In flour mills, modern air conditioning has proved to be a great aid to economical milling and to the maintenance of a definite standard of quality.

It thoroughly cleanses all air used in the milling process, positively eliminating any chance of stock contamination through air contact. A moisture content most suitable and economical for milling is maintained in the stocks. Final moisture content is kept within exact limits to protect the miller against invisible weight losses. Spores, mold, souring and caking are prevented.

Typical Sturtevant installations in flour mills are:

Russel Miller Milling Co.	Minneapolis, Minn.
Pillsbury Flour Mills	Minneapolis, Minn.
Pillsbury Flour Mills	Buffalo, N. Y.

• STURTEVANT AIR CONDITIONING FOR INDUSTRY •



# Sturtevant COOLING and AIR CONDITIONING CORPORATION

DIVISION OF B. F. STURTEVANT COMPANY

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